

ITEM #	QTY	PART #	PART TITLE	
-3	1	RB PWC64845-3	ENGINE MOUNT	D
-7	1	RB PWC64845-7	WEB SLING ASSY	
12	1	RB41011	DART PLACARD	
13	1	McMaster#90293A320 OR EQUIV	SS17-4 PH T HANDLE LOCKING QUICK RELEASE PIN WITH RING 7/16" DIA. X 1" USABLE LENGTH	
14	1	McMaster#91255A238 OR EQUIV	BLACK OXIDE STEEL BUTTON HEAD HEX DRIVE SCREW #10-24 X 1/4" LG.	
15	1	McMaster#90177A216 OR EQUIV	STEEL ZINC PLATED SPLIT RING 3/4" OD. X 5/8" ID. X 1/8" THK	
16	4	McMaster#98029A031 OR EQUIV	BLACK OXIDE STEEL OVERSIZED WASHER 0.406" ID. X 0.875" OD. X 0.105"-0.130" THK	
17	1	McMaster#90312A288 OR EQUIV	STEEL NYLON COATED LANYARD LOOP TO EYE 3/64" DIA. X 6" LG.	
18	2	McMaster#8494T28 OR EQUIV.	BLACK OXIDE STEEL SAFETY PIN SHACKLE 3/8" THK. X 7/16" DIA.	

RB PWC64845 LIFTING STRAP ASSY

SECTION A-A

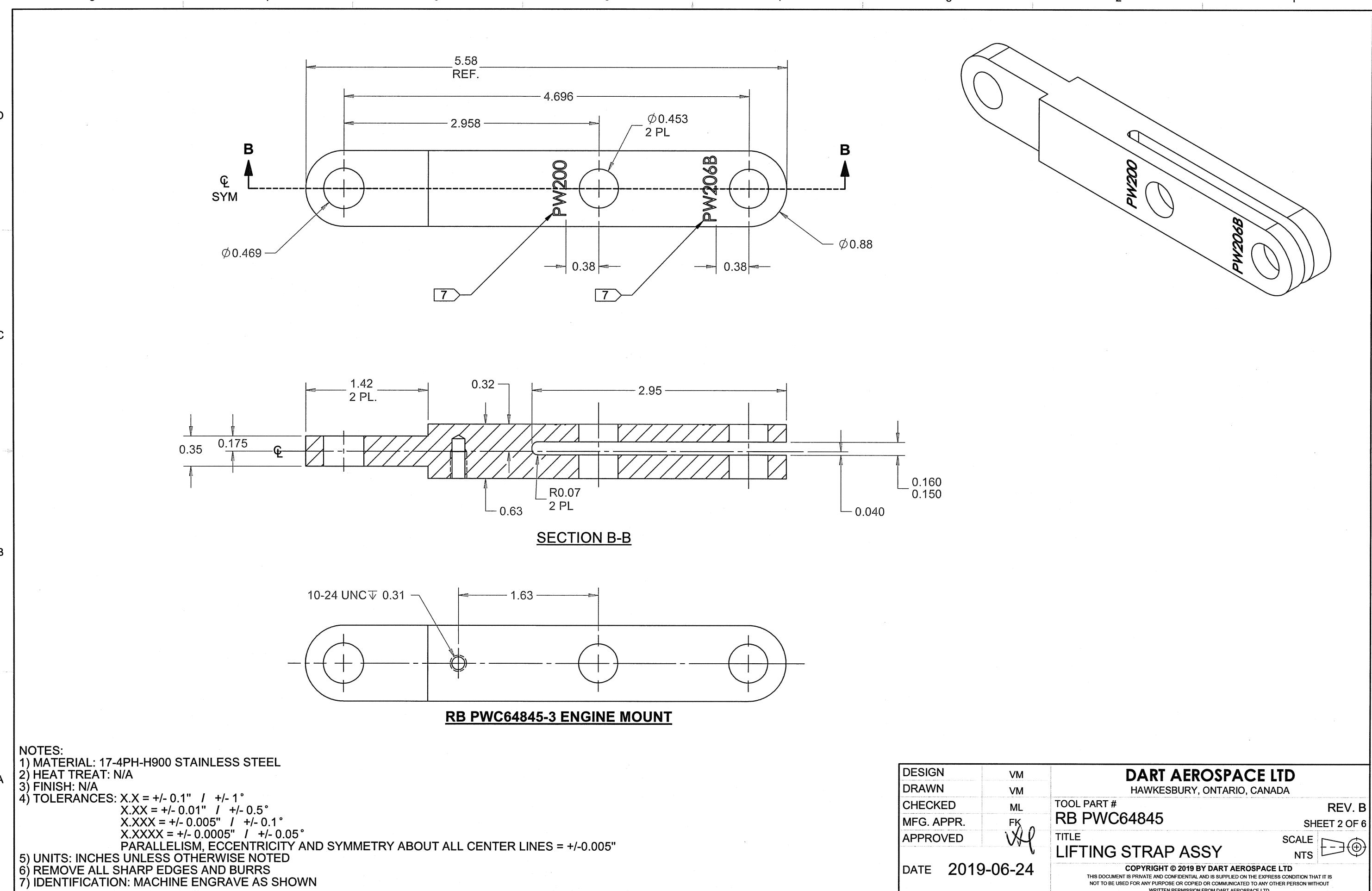
NOTES:

- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) IDENTIFICATION: ENGRAVE THE TOOL P/N, S/N, AND "SWL: XXXX LBS" ON THE DART PLACARD WHERE INDICATED
- 7) ASSEMBLE AS SHOWN
- 8) APPLY RED THREADLOCKER LOCTITE 263/262 ON THREADS OF ITEM 14 THEN ASSEMBLE WITH ITEM 17 AND ITEM -3, AND REMOVE EXCESS
- 9) INSTALL ITEM 14 HAND TIGHT

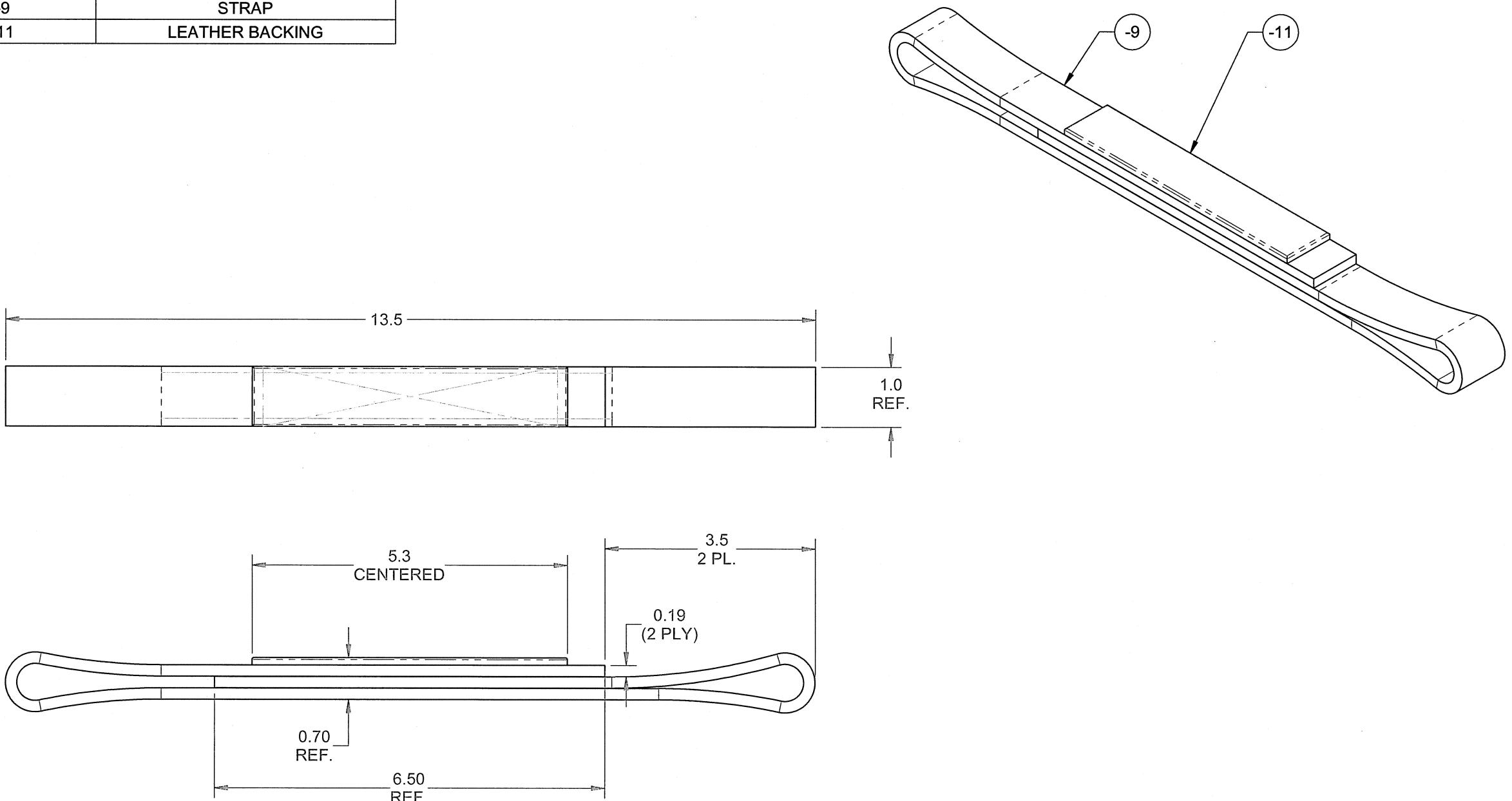
B	SEE PREVIOUS PDF FOR OLDER REV TEMPLATE UPDATED PER DART HBY STANDARDS COMPLETE REDESIGN PER TULMAR'S COMMENTS	17-685	VM
REV.	DESCRIPTION	ECN #	BY
DESIGN	VM	DART AEROSPACE LTD	
DRAWN	VM	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML		
MFG. APPR.	FK		
APPROVED	VLP		
DATE 2019-06-24			

TOOL PART # **RB PWC64845** REV. B
TITLE **LIFTING STRAP ASSY** SHEET 1 OF 6
SCALE NTS

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ITEM #	QTY	PART #	PART TITLE
-9	1	RB PWC64845-9	STRAP
-11	1	RB PWC64845-11	LEATHER BACKING



RB PWC64845-7 WEB SLING ASSY

8 9 10

NOTES:

- 1) MATERIAL: N/A
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
 X.XX = +/- 0.01" / +/- 0.5°
 X.XXX = +/- 0.005" / +/- 0.1°
 X.XXXX = +/- 0.0005" / +/- 0.05°
 PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES AND BURRS
- 7) IDENTIFICATION: N/A
- 8) SEW ITEMS TOGETHER AS SHOWN
- 9) STITCHING TO BE IAW ASTM D6193, TYPE 301, 6-10 STITCHES PER INCH, MINIMUM 0.5" BACKSTITCH, 0.5" SEAM ALLOWANCE, 0.5" TURNBACKS WHERE SHOWN, 0.13 ± 0.10 " FROM EDGE. ADDITIONAL ROWS OF SEWING ARE ACCEPTABLE TO ASSIST IN ASSEMBLY
- 10) PHANTOM LINES REPRESENT STITCHING

DESIGN	VM	DART AEROSPACE LTD	
DRAWN	VM	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML	REV. B	
MFG. APPR.	FK	SHEET 3 OF 6	
APPROVED	WJ	TOOL PART #	
		RB PWC64845	
		TITLE	
		LIFTING STRAP ASSY	
DATE		2019-06-24	
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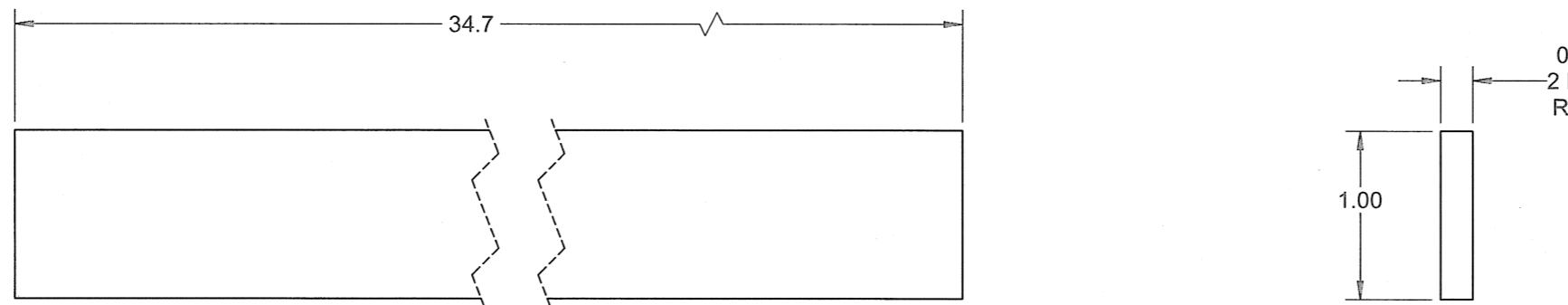
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RB PWC64845-9 STRAP

8

NOTES:

- 1) MATERIAL: WHITE WEBBING WITH EDGE GUARD WHITE, MIN 1000 LBS BREAKING STRENGTH OR EQUIV
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
 X.XX = +/- 0.01" / +/- 0.5°
 X.XXX = +/- 0.005" / +/- 0.1°
 X.XXXX = +/- 0.0005" / +/- 0.05°
 PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/- 0.005"
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES AND BURRS
- 7) IDENTIFICATION: N/A
- 8) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	VM	DART AEROSPACE LTD	
DRAWN	VM	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML	REV. B	
MFG. APPR.	FK	SHEET 4 OF 6	
APPROVED	<i>WJ</i>	TITLE	
DATE 2019-06-24		LIFTING STRAP ASSY	
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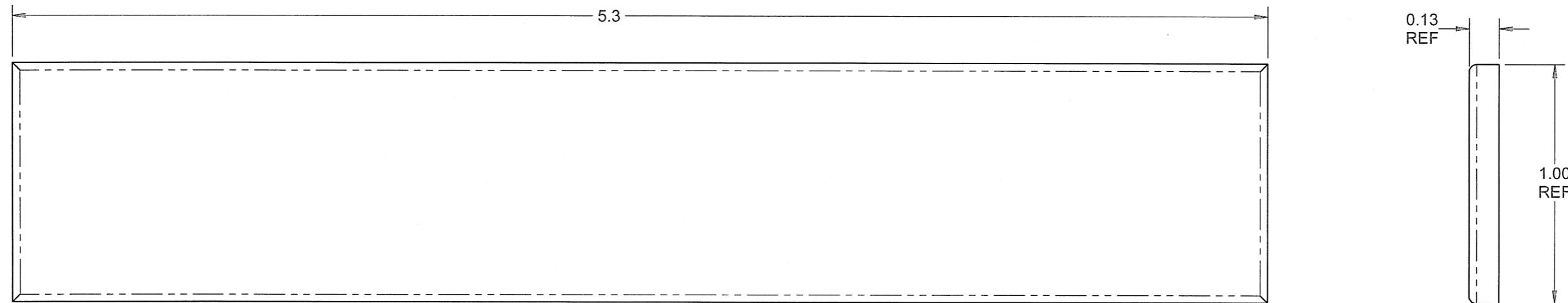
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RB PWC64845-11 LEATHER BACKING

8

NOTES:

- 1) MATERIAL: McMaster#8706K56 OR EQUIV (LEATHER STRIP 1" WIDE X 36" LG. X 1/8" THK.)
- 2) HEAT TREAT: N/A
- 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
 X.XX = +/- 0.01" / +/- 0.5°
 X.XXX = +/- 0.005" / +/- 0.1°
 X.XXXX = +/- 0.0005" / +/- 0.05°
 PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) REMOVE ALL SHARP EDGES AND BURRS
- 7) IDENTIFICATION: N/A
- 8) HEAT CUT ENDS TO PREVENT FRAYING

DESIGN	VM	DART AEROSPACE LTD	
DRAWN	VM	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML	TOOL PART #	REV. B
MFG. APPR.	FK	RB PWC64845	SHEET 5 OF 6
APPROVED	WF	TITLE	
		LIFTING STRAP ASSY	
DATE 2019-06-24		SCALE NTS	

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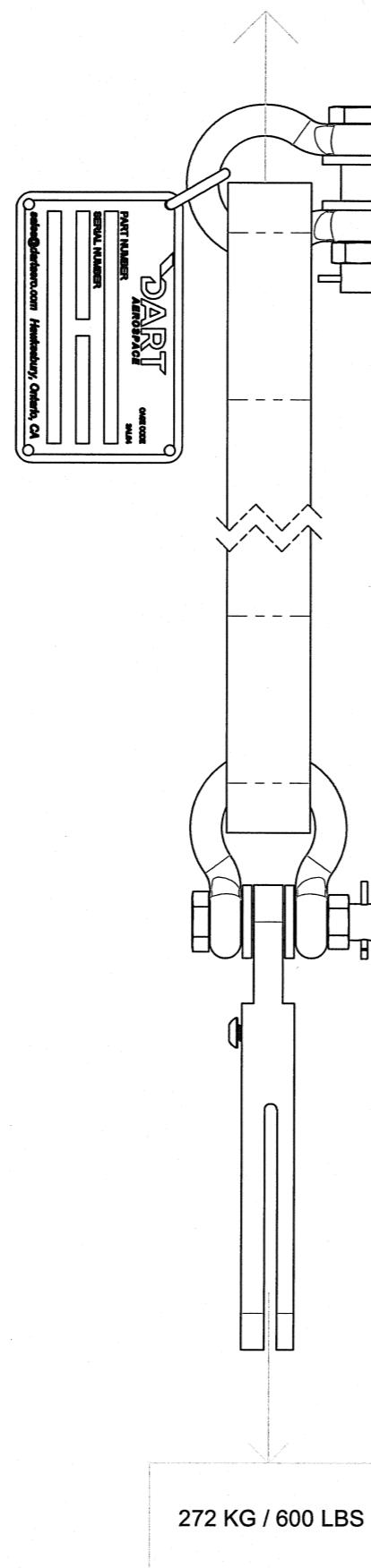
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FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE STRAP ASSEMBLY ON AN OVERHEAD LIFTING DEVICE. ATTACH STRAP TO AN APPROPRIATE TEST WEIGHT OF 272 KG / 600 LBS.
2. LIFT WEIGHT FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, DISTORTION OR DAMAGED/FRAYED STRAPS.
3. REMOVE WEIGHT AND RE-INSPECT STRAP, CHECKING FOR STRESS CRACKS, BENDING, DISTORTIONS OR DAMAGED/FRAYED STRAPS.

INSPECTOR: _____

TESTER: _____

S/N: _____

DATE: _____

DESIGN DRAWN	VM	DART AEROSPACE LTD	
CHECKED	VM	HAWKESBURY, ONTARIO, CANADA	
MFG. APPR.	ML	TOOL PART #	REV. B
APPROVED	FK	RB PWC64845	SHEET 6 OF 6
DATE 2019-06-24		TITLE LIFTING STRAP ASSY	
SCALES NTS			

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